

VIRGIN RIVER BASIN

203

09408400 SANTA CLARA RIVER NEAR PINE VALLEY, UT

LOCATION.--Lat 37°23'00" long 113°28'57", in NW^{1/4}SE^{1/4}NE^{1/4} sec. 24, T. 39 S., R. 15 W., Washington County, Hydrologic Unit 15010008, Dixie National Forest, on right bank 150 ft upstream from highway bridge, 0.6 mi downstream from Pine Valley Reservoir, 1.6 mi southeast of town of Pine Valley, and 2.5 mi upstream from Grass Valley Creek.

DRAINAGE AREA.--18.7 mi².

PERIOD OF RECORD.--July 1959 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,640 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for discharges less than 2 ft³/s and estimated daily discharges, which are poor. Flow slightly regulated by Pine Valley Reservoir. No diversions above station.EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 776 ft³/s, Dec 6, 1966, gage height, 6.85 ft; minimum daily discharge, 0.19 ft³/s, Aug 15, 2002.EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 60 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 13	0730	*3.3	*1.31				

Minimum daily discharge, 0.19 ft³/s, Aug 15.DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	2.8	e2.5	e1.2	e0.40	1.3	1.4	0.85	0.41	0.23	0.23	0.26
2	2.9	2.8	2.5	e1.2	e0.40	e1.2	1.4	0.89	0.46	0.23	0.25	0.26
3	2.9	2.8	2.6	e1.2	e0.40	e1.3	1.4	0.89	0.49	0.23	0.25	0.26
4	2.9	2.8	2.8	e1.1	e0.40	1.5	1.4	0.83	0.47	0.23	0.22	0.25
5	2.9	2.8	e2.4	e0.90	e0.50	1.4	1.3	0.78	0.42	0.24	0.20	0.28
6	2.9	2.7	e2.2	e1.1	e0.60	1.4	1.2	0.76	0.45	0.24	0.20	0.53
7	3.0	2.7	e2.2	e1.3	e0.70	1.4	1.3	0.74	0.40	0.23	0.21	0.53
8	3.0	2.7	e2.2	e1.5	e0.90	1.5	1.3	0.74	0.37	0.23	0.21	0.56
9	2.9	2.7	e2.3	e1.4	e1.2	e1.4	1.2	0.74	0.33	0.24	0.23	0.48
10	2.9	2.7	e2.4	e1.2	1.6	1.4	1.4	0.74	0.35	0.27	0.26	0.46
11	2.8	2.7	e2.5	e0.90	1.7	1.4	1.5	0.74	0.38	0.26	0.23	0.54
12	2.8	2.7	e2.4	e1.0	1.6	1.4	1.4	0.74	0.38	0.28	0.21	0.59
13	2.9	3.1	e2.5	e1.0	e1.6	1.4	1.4	0.74	0.36	0.28	0.21	0.51
14	2.9	2.9	e2.3	e0.80	1.6	1.5	1.3	0.70	0.34	0.20	0.21	0.45
15	2.8	2.8	e1.9	e0.70	1.6	e1.3	1.2	0.69	0.31	0.25	0.19	0.42
16	2.9	2.8	e1.4	e0.50	1.5	e1.3	1.2	0.65	0.32	0.28	0.20	0.40
17	2.9	2.7	e1.4	e0.50	1.5	e1.3	1.2	0.64	0.31	0.31	0.22	0.40
18	2.9	2.7	e1.7	e0.50	1.6	1.4	1.2	0.60	0.31	0.36	0.22	0.40
19	2.9	2.7	e1.9	e0.50	1.4	e1.3	1.2	0.58	0.31	0.30	0.23	0.40
20	2.9	2.7	e2.0	e0.60	1.4	1.4	1.2	0.53	0.31	0.30	0.25	0.40
21	2.9	2.7	e1.8	e0.70	1.4	1.4	1.1	0.59	0.26	0.30	0.25	0.40
22	2.8	2.7	e1.6	e0.90	1.4	1.4	1.0	0.63	0.27	0.27	0.24	0.40
23	2.8	2.6	e1.3	e0.60	1.4	1.4	1.0	0.64	0.26	0.25	0.24	0.40
24	2.8	2.6	e1.2	e0.50	1.4	1.7	0.99	0.63	0.25	0.25	0.23	0.39
25	2.8	3.0	e0.90	e0.60	1.4	1.5	0.95	0.57	0.24	0.49	0.24	0.39
26	2.8	e2.4	e0.80	e0.90	1.5	1.4	0.93	0.57	0.24	0.34	0.24	0.39
27	2.7	2.7	e0.80	e0.90	1.4	1.4	1.2	0.54	0.23	0.27	0.23	0.40
28	2.7	e2.4	e0.80	e0.80	1.4	1.4	1.0	0.53	0.22	0.25	0.24	0.42
29	2.7	2.7	e1.0	e0.60	---	1.4	0.88	0.54	0.21	0.23	0.25	0.70
30	2.7	2.7	e1.2	e0.50	---	1.6	0.81	0.51	0.22	0.23	0.25	0.54
31	3.0	---	e1.2	e0.40	---	1.6	---	0.45	---	0.23	0.26	---
TOTAL	88.6	81.8	56.70	26.50	33.90	43.7	35.96	20.77	9.88	8.30	7.10	12.81
MEAN	2.858	2.727	1.829	0.855	1.211	1.410	1.199	0.670	0.329	0.268	0.229	0.427
MAX	3.0	3.1	2.8	1.5	1.7	1.7	1.5	0.89	0.49	0.49	0.26	0.70
MIN	2.7	2.4	0.80	0.40	0.40	1.2	0.81	0.45	0.21	0.20	0.19	0.25
AC-FT	176	162	112	53	67	87	71	41	20	16	14	25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2002, BY WATER YEAR (WY)

MEAN	3.455	3.750	3.574	2.625	3.107	6.373	16.64	32.80	24.43	10.64	5.892	3.996
MAX	12.5	21.4	30.3	5.08	8.29	24.8	43.4	122	126	47.9	23.2	12.1
(WY)	1973	1988	1967	1979	1995	1995	1969	1973	1983	1983	1983	1983
MIN	0.84	0.95	1.02	0.85	0.68	1.20	1.20	0.67	0.33	0.27	0.23	0.43
(WY)	1978	1978	1978	2002	1990	1977	2002	2002	2002	2002	2002	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1960 - 2002

ANNUAL TOTAL	3661.20	426.02	9.798
ANNUAL MEAN	10.03	1.167	29.4
HIGHEST ANNUAL MEAN			1983
LOWEST ANNUAL MEAN			1.17
HIGHEST DAILY MEAN	79	May 14	397
LOWEST DAILY MEAN	0.80	Dec 26	Dec 6 1966
ANNUAL SEVEN-DAY MINIMUM	0.96	Dec 24	0.19 Aug 15 2002
ANNUAL RUNOFF (AC-FT)	7260	845	0.21 Aug 12 2002
10 PERCENT EXCEEDS	27	2.8	23
50 PERCENT EXCEEDS	4.1	0.90	3.8
90 PERCENT EXCEEDS	2.4	0.24	1.6

e Estimated